

GRAPH THEORY UTILIZATION IN WEBSITE DEVELOPMENT

ABSTRACT

A computer-implemented method for facilitating website development by a website developer from a supplied data schema. The method includes facilitating the specification of a user data model from the data schema in an accurate and user-friendly manner. The method includes modeling the data schema using graph theory and extracting from the graph possible relationships pertaining to a particular table to allow the website developer to choose the desired relationship as part of the user data model specification process. The method also includes automatically extracting the SQL statements from the selected relationship. The graph is also leveraged to support the data integrity requirements of foreign key relationships during the record addition process and to support quality control on the supplied data schema to pinpoint circular reference errors.